

Application No. 10/665245
Examiner: B. Avery
Art Unit 3618

IN THE CLAIMS

Amendments To The Claims:

This Listing of Claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Previously presented) An engine mounting structure of a low floor type vehicle comprising:
a longitudinal V-type engine mounted below a low floor, the V-type engine including a crankcase, and
a body frame comprising a head pipe, right and left upper frames extended backward and downward from the head pipe, right and left down frames extended downward from the head pipe and coupled to a front of the crankcase of the V-type engine, wherein the body frame is a diamond type frame suspending the V-type engine;
right and left low floor supporting frames fixed to lower parts of the right and left down frames, respectively, and the low floor is supported by the right and left low floor supporting frames;
wherein the longitudinal V-type engine further comprises a front cylinder and a rear cylinder,
wherein a banking angle between the front cylinder and the rear cylinder of the V-type engine is equal to or greater than approximately 90°, and
the V-type engine is arranged with a bisector of the banking angle directed toward the head pipe of the body frame.
2. (canceled)
3. (Previously presented) The engine mounting structure of claim 1, wherein the front cylinder extends in front of the right and left down frames.
4. (Previously presented) The engine mounting structure of claim 1, wherein the rear cylinder is between the right and left upper frames.

Application No. 10/665245
Examiner: B. Avery
Art Unit 3618

5. (Original) The engine mounting structure of claim 1, further comprising a fuel tank, and an air intake system, wherein the air intake system is between the cylinders and the fuel tank is arranged above the intake system.

6. (Original) The engine mounting structure of claim 1, wherein the banking angle between the front cylinder and the rear cylinder of the V-type engine is equal to 90°.

7. (Original) The engine mounting structure of claim 1, wherein the engine adds to the strength of the frame.

8. (Previously presented) A low floor type vehicle comprising:
a diamond type frame, the frame including a head pipe, right and left upper frames extended backward and downward from the head pipe, right and left down frames extended downward from the head pipe and coupled to a front of a crankcase of an engine;
right and left low floor supporting frames fixed to lower parts of the right and left down frames, respectively, and a low floor is supported by the right and left low floor supporting frames;
and
wherein the engine is mounted on the frame below the low floor of the low floor type vehicle.

9. (Previously presented) The low floor type vehicle of claim 8,
wherein the engine comprises a longitudinal V-type engine with a front cylinder and a rear cylinder and wherein a banking angle between the front cylinder and the rear cylinder of the V-type engine is equal to or greater than approximately 90°.

10. (Original) The low floor type vehicle of claim 9, further comprising:
an air intake system,
wherein the air intake system is between the cylinders.

Application No. 10/665245
Examiner: B. Avery
Art Unit 3618

11. (Original) The low floor type vehicle of claim 9, wherein the longitudinal V-type engine is suspended by the diamond type frame.

12. (New) An engine mounting structure of a low floor type vehicle comprising:
a longitudinal V-type engine mounted below a low floor, and
a body frame including a head pipe and a pair of supporting frames extending longitudinally along right and left sides of the V-type engine, the supporting frames defining an opening therebetween so as to support the low floor and allow the V-type engine to be arranged below the low floor,

wherein the longitudinal V-type engine further comprises a front cylinder and a rear cylinder,

wherein a banking angle between the front cylinder and the rear cylinder of the V-type engine is equal to or greater than approximately 90°, and

the V-type engine is arranged with a bisector of the banking angle directed toward the head pipe of the body frame.

13. (New) The engine mounting structure of claim 12, wherein
the V-type engine including a crankcase, and
the body frame further comprising right and left upper frames extended backward and downward from the head pipe, and right and left down frames extended downward from the head pipe and coupled to a front of the crankcase of the V-type engine, wherein the body frame is a diamond type frame suspending the V-type engine.

14. (New) A low floor type vehicle comprising:
a diamond type frame, the frame including a pair of supporting frames extending longitudinally along right and left sides of the vehicle, the supporting frames defining an opening therebetween,
a low floor supported by the supporting frames, and
an engine supported in the opening of the supporting frames below the low floor.

Application No. 10/665245

Examiner: B. Avery

Art Unit 3618

15. (New) The low floor type vehicle of claim 14,
wherein the engine comprises a longitudinal V-type engine with a front cylinder and a rear cylinder and wherein a banking angle between the front cylinder and the rear cylinder of the V-type engine is equal to or greater than approximately 90°.